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         JUL 12
                 resulting in a closer connection to BABS
         AUG 02
                 IFIPAT/IFIUDB/IFICDB reloaded with new search and display
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                 fields
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         AUG 02
                 CAplus and CA patent records enhanced with European and Japan
                 Patent Office Classifications
NEWS
         AUG 02
                 The Analysis Edition of STN Express with Discover!
                 (Version 7.01 for Windows) now available
         AUG 27
                 BIOCOMMERCE: Changes and enhancements to content coverage
NEWS
      7
                 BIOTECHABS/BIOTECHDS: Two new display fields added for legal
NEWS
         AUG 27
                 status data from INPADOC
                 INPADOC: New family current-awareness alert (SDI) available
NEWS
      9
         SEP 01
                 New pricing for the Save Answers for SciFinder Wizard within
NEWS 10
         SEP 01
                 STN Express with Discover!
NEWS 11
         SEP 01
                 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
                 STANDARDS will no longer be available on STN
NEWS 12
         SEP 27
                 SWETSCAN will no longer be available on STN
NEWS 13
         SEP 27
         OCT 28
                 KOREAPAT now available on STN
NEWS 14
NEWS 15 NOV 18
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                 search transcripts to be affected by CERAB, COMPUAB, ELCOM,
                 and SOLIDSTATE reloads
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NEWS EXPRESS OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004

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NEWS WWW CAS World Wide Web Site (general information)

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=> file agricola caplus biosis
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ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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=> d 1-2 ti

- L1 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding
- L1 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Comparison between phenomenological and microscopic optical potential in nuclear data evaluations

=> d 1-2 so

- L1 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
- SO PCT Int. Appl., 173 pp. CODEN: PIXXD2
- L1 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
- SO Chinese Journal of Nuclear Physics (1991), 13(1), 45-52 CODEN: CJNPEV; ISSN: 1001-6031

=> d pi

L1	ANS	SWER	1 OF	2	CAPLI	US (COPY	RIGH	Г 200	04 A	CS of	n ST	N							
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	WO	2002	0290	70		A3	:	2003	0814											
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			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	ΝZ,	PH,	PL,		
			PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,		
			US,	UZ,	VN,	YU,	ZA,	zw												
		RW:	GH,	GM,	KΕ,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AM,	ΑZ,	BY,	KG,		
			ΚZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	CH,	CY,	DΕ,	DK,	ES,	FI,	FR,	GB,	GR,		
			ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,		
			GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG						•				
	AII 2001096657					A5		20020415 AU 2001-96657								20011005				

=> d 2 ab

L1 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AB The chi square (χ2) values, which represent the degree of the agreement of the calculated cross sections with their exptl. values, are calculated for 3 kinds of optical potential, which are resp. the phenomenol. optimal optical potential (OOP) for a specific element, the global phenomenol. optical potential given by Becchetti and Grenlees (BGP) for a large amount of target nuclei and the microscopic optical potential based on Skyrme force (MOP). Some 14 natural elements (each containing 1-4 isotopes) are calculated with 12-20 n incident energies, which are in the 0.1-24 MeV energy range for each element, resp. The calculated average total χ2 values are .hivin.χOOP2 = 0.496, .hivin.χ MOP2 = 1
.150, and .hivin.χBGP2 = 1.355, from which one obtains the ratio of average deviation of calculated nuclear data from their exptl. values .hivin.ΔMOP/.hivin.ΔOOP = 1.52 and
.hivin.ΔBGP/.hivin.ΔOOP = 1.65. The microscopic optical potential based on Skyrme force, which has AN anal. formalism without any free parameters, is very useful in nuclear data calcns. and evaluations.

=> s pta-3956 or pta-4030 or pta-3965 0 PTA-3956 OR PTA-4030 OR PTA-3965 => s ((chandler v?) or (chandler, v?))/auy 'AUY' IS NOT A VALID FIELD CODE 'AUY' IS NOT A VALID FIELD CODE 'AUY' IS NOT A VALID FIELD CODE 0 ((CHANDLER V?) OR (CHANDLER, V?))/AUY => s ((chandler v?) or (chandler, v?))/au 238 ((CHANDLER V?) OR (CHANDLER, V?))/AU => s 14 and paramut? 44 L4 AND PARAMUT? => dup rem 15 PROCESSING COMPLETED FOR L5 23 DUP REM L5 (21 DUPLICATES REMOVED) => d 1-10 ti ANSWER 1 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1 Chromatin conversations: mechanisms and implications of

A1

- paramutation

 L6 ANSWER 2 OF 23 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
- TI Paramutation, an allele interaction that causes heritable changes in transcription involves long distance interactions and chromatin structural changes.
- L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding
- ANSWER 4 OF 23 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN

 DUPLICATE 2
- TI A mutation that prevents paramutation in maize also reverses

Mutator transposon methylation and silencing.

- L6 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
- TI Differential chromatin structure within a tandem array 100 kb upstream of the maize b1 locus is associated with paramutation
- L6 ANSWER 6 OF 23 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 4
- TI The regulatory regions required for B' paramutation and expression are located far upstream of the maize b1 transcribed sequences.
- L6 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Long-distance cis and trans interactions mediate paramutation
- L6 ANSWER 8 OF 23 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 5
- TI Genetic factors required to maintain repression of a paramutagenic maize pl1 allele.
- L6 ANSWER 9 OF 23 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- TI Gene activation and gene silencing.
- L6 ANSWER 10 OF 23 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- TI Epigenetic control of gene expression in plants.

=> d ab

Answer 1 of 23 Caplus copyright 2004 acs on STN DUPLICATE 1

A review. Paramutation is a widespread epigenetic phenomenon that was first described in pea and then extensively studied in maize, whereby combining two specific alleles results in a heritable change in the expression of one of the alleles. Far from being restricted to endogenous plant genes, paramutation-like interactions have been described in several kingdoms, in which they can occur between homologous transgenes or between transgenes and homologous endogenous genes at allelic or non-allelic positions. In this review, potential mechanisms underlying paramutation was discussed, and compared paramutation to several other trans-sensing phenomena, and speculate on the potential roles and evolutionary implications of these intriguing homol.-sensing mechanisms.

=> d so

- L6 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
- SO Nature Reviews Genetics (2004), 5(7), 532-544 CODEN: NRGAAM; ISSN: 1471-0056

=> d 2 ab

L6 ANSWER 2 OF 23 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

- L6 ANSWER 2 OF 23 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- SO Anonymous. (2003) pp. Abst 4. Plant Genetics 2003: Mechanisms of Genetic Variation. print.

Publisher: American Society of Plant Biologists, 15501 Monona Drive, Rockville, MD, 20855-2768, USA.

Meeting Info.: Plant Genetics Meeting on Mechanisms of Genetic Variation. Snowbird, UT, USA. October 22-26, 2003. American Society of Plant Biologists.

=> d 3 ab

- L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN
- AB Transgenic silencing is a little understood process by which genes introduced into plants are turned off or silenced. Genetic screens were designed to identify corn mutants with reduced gene silencing activity. Such mutant corn lines include Mop1-1; Mop1-2EMS; Mop2-1, mop3-1; CC2343, rmr1-1; rmr1-2; rmr2-1; rmr6-1; rmr7-1; rmr7-2; rmr8-1; rmr9-1; Mop1-4; Mop1-5; and rmr11-1 and seeds derived therefrom, the plants are useful for corn breeding programs to produce inbred and hybrid seed with reduced gene silencing activity.

=> d 3 so

L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

SO PCT Int. Appl., 173 pp. CODEN: PIXXD2

=> d 3 pi

L6	ANSWER	3 OF 2	23 CAP	LUS	COP	YRIG	HT 2	004	ACS (on S'	TN							
PATENT NO.				KIN	D 1	DATE APPLICATION NO.						NO.	DATE					
ΡI	PI WO 2002029070			A2	20020411				WO 2001-US31285						20011005			
	WO 2002029070			C2 20030220														
	WO 2002029070			A3 20030814														
	W:	AE, A	AG, AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,		
		CO, C	CR, CU,	CZ,	DΕ,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,		
		GM, F	HR, HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KΡ,	KR,	KZ,	LC,	LK,	LR,		
		LS, I	LT, LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PH,	PL,		
		PT, I	RO, RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,		
		US, U	JZ, VN,	YU,	ZA,	zw												
	RW:	GH, C	GM, KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AM,	ΑZ,	BY,	KG,		
		KZ, N	MD, RU,	ТJ,	TM,	ΑT,	BE,	CH,	CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,		
			IT, LU,															
		GQ, C	GW, ML,	MR,	NE,	SN,	TD,	TG	•									
	AU 2001096657			A5	:	2002	0415		AU 2	001-	9665	7		20	0011	005		
	US 2002157133				20021024 US 2001-972805							20011005						

=> d 11-20 ti

- L6 ANSWER 11 OF 23 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 6
- TI mediator of paramutation1 Is required for establishment and maintenance of paramutation at multiple maize loci.
- ANSWER 12 OF 23 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States

- of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 7
- TI Paramutation alters regulatory control of the maize pl locus.
- L6 ANSWER 13 OF 23 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 8
- TI Paramutation in maize.
- L6 ANSWER 14 OF 23 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 9
- TI Paramutation and related allelic interactions.
- L6 ANSWER 15 OF 23 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- TI B And pl paramutation in maize: Heritable transcription states programmed during development.
- L6 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN
- TI b and pl paramutation in maize: heritable transcription states programmed during development
- ANSWER 17 OF 23 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN

 DUPLICATE 10
- TI Sequences required for **paramutation** of the maize b gene map to a region containing the promoter and upstream sequences.
- L6 ANSWER 18 OF 23 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 11
- TI Allelic interactions heritably alter the activity of a metastable maize pl allele.
- L6 ANSWER 19 OF 23 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
- TI Paramutation: An allelic interaction that causes heritable changes in transcription.
- L6 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Paramutation in maize and related allelic interactions
- => d 21-23 ti
- L6 ANSWER 21 OF 23 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- TI Paramutation: An allelic interaction that causes heritable changes in transcription.
- L6 ANSWER 22 OF 23 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- TI Paramutation in maize: Allelic interactions associated with heritable changes in transcription.
- ANSWER 23 OF 23 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN

 DUPLICATE 12

Paramutation, an allelic interaction, is associated with a TTstable and heritable reduction of transcription of the maize b regulatory gene. => s ((hollick, j?) or (hollick j?))/ay 'AY' IS NOT A VALID FIELD CODE NUMERIC VALUE NOT VALID 'HOLLICK, J?' NUMERIC VALUE NOT VALID 'HOLLICK J?' 'AY' IS NOT A VALID FIELD CODE 0 ((HOLLICK, J?) OR (HOLLICK J?))/AY => s ((hollick, j?) or (hollick j?))/au8 'AU8' IS NOT A VALID FIELD CODE 'AU8' IS NOT A VALID FIELD CODE 'AU8' IS NOT A VALID FIELD CODE 0 ((HOLLICK, J?) OR (HOLLICK J?))/AU8 => s ((hollick, j?) or (hollick j?))/au 39 ((HOLLICK, J?) OR (HOLLICK J?))/AU => dup rem 19 PROCESSING COMPLETED FOR L9 21 DUP REM L9 (18 DUPLICATES REMOVED) => d 1-10 ti ANSWER 1 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1 2,6-Disubstituted pyran-4-one and thiopyran-4-one inhibitors of DNA-Dependent protein kinase (DNA-PK) ANSWER 2 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN T.10 Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding L10 ANSWER 3 OF 21 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. DUPLICATE 2 ΤI Genetic factors required to maintain repression of a paramutagenic maize pl1 allele. L10 ANSWER 4 OF 21 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 3 mediator of paramutation1 Is required for establishment and maintenance of TТ paramutation at multiple maize loci. ANSWER 5 OF 21 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN **DUPLICATE 4** TIParamutation alters regulatory control of the maize pl locus. L10

- L10 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Combined solar collector and photovoltaic cells
- L10 ANSWER 7 OF 21 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. On STN
- TI Repellency of Deer Away Big Game Repellent(R) to eastern cottontail rabbits.
- L10 ANSWER 8 OF 21 AGRICOLA Compiled and distributed by the National

- Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN

 DUPLICATE 5
- TI Epigenetic allelic states of a maize transcriptional regulatory locus exhibit overdominant gene action.
- L10 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Solar cogeneration panels
- L10 ANSWER 10 OF 21 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 6
- TI Paramutation and related allelic interactions.
- => s 110 and paramut?
- L11 9 L10 AND PARAMUT?
- => d 1-9 ti
- L11 ANSWER 1 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN
- TI Genetic factors required to maintain repression of a paramutagenic maize pl1 allele.
- L11 ANSWER 2 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN
- TI mediator of paramutation1 Is required for establishment and maintenance of paramutation at multiple maize loci.
- L11 ANSWER 3 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN
- TI Paramutation alters regulatory control of the maize pl locus.
- L11 ANSWER 4 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN
- TI Paramutation and related allelic interactions.
- L11 ANSWER 5 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN
- TI Allelic interactions heritably alter the activity of a metastable maize pl allele.
- L11 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding
- L11 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
- TI b and pl paramutation in maize: heritable transcription states programmed during development
- L11 ANSWER 8 OF 9 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- TI B And pl paramutation in maize: Heritable transcription states

programmed during development.

L11 ANSWER 9 OF 9 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN TI Paramutation: An allelic interaction that causes heritable changes in transcription.

=> d so

- L11 ANSWER 1 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN
- SO Genetics, Jan 2001. Vol. 157, No. 1. p. 369-378
 Publisher: Bethesda, Md.: Genetics Society of America.
 CODEN: GENTAE; ISSN: 0016-6731

=> d ab

L11 ANSWER 1 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

(2004) on STN

=> d 2 ab

L11 ANSWER 2 OF 9 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN

=> d 2 so

- L11 ANSWER 2 OF 9 'AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN
- SO The Plant cell, Nov 2000. Vol. 12, No. 11. p. 2101-2118
 Publisher: [Rockville, MD : American Society of Plant Physiologists, c1989CODEN: PLCEEW; ISSN: 1040-4651

=> d 8 ab

L11 ANSWER 8 OF 9 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

=> d 8 so

L11 ANSWER 8 OF 9 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN SO Russo, V. E. A. [Editor]; Martienssen, R. A. [Editor]; Riggs, A. D. [Editor]. Cold Spring Harbor Monogr. Ser., (1996) pp. 289-304. Cold Spring Harbor Monograph Series; Epigenetic mechanisms of gene regulation. Publisher: Cold Spring Harbor Laboratory Press, 10 Skyline Drive, Plainview, New York 11803, USA. Series: Cold Spring Harbor Monograph Series.

CODEN: CHMSDK. ISSN: 0270-1847. ISBN: 0-87969-490-4.

=> s 112 and paramut?

L13 19 L12 AND PARAMUT?

=> dup rem 113

PROCESSING COMPLETED FOR L13

L14 8 DUP REM L13 (11 DUPLICATES REMOVED)

=> d 1-8 ti

- L14 ANSWER 1 OF 8 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN Differential gene expression in mediator of paramutation (mop) mutants of maize.
- L14 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding
- L14 ANSWER 3 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 1
- TI A mutation that prevents **paramutation** in maize also reverses Mutator transposon methylation and silencing.
- L14 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
- TI Differential chromatin structure within a tandem array 100 kb upstream of the maize bl locus is associated with **paramutation**
- L14 ANSWER 5 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 3
- TI The regulatory regions required for B' paramutation and expression are located far upstream of the maize b1 transcribed sequences.
- L14 ANSWER 6 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 4
- TI mediator of paramutation1 Is required for establishment and maintenance of paramutation at multiple maize loci.
- L14 ANSWER 7 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 5
- TI Paramutation in maize.
- L14 ANSWER 8 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 6
- TI Paramutation and related allelic interactions.

=> d so

L14 ANSWER 1 OF 8 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN SO Anonymous. (2003) pp. Abst 68. Plant Genetics 2003: Mechanisms of Genetic Variation. print.

Publisher: American Society of Plant Biologists, 15501 Monona Drive, Rockville, MD, 20855-2768, USA.

Meeting Info.: Plant Genetics Meeting on Mechanisms of Genetic Variation. Snowbird, UT, USA. October 22-26, 2003. American Society of Plant Biologists.

=> d 2 pi

L14 ANSWER 2 OF 8 CAPLU						COPY	RIGH'	Γ 200	04 A	CS of	n ST						
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	WO 2002029070				A3		2003	0814									
	W :	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GΗ,
		GM,	HR,	HŲ,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PH,	PL,
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	ΤZ,	UA,	UG,
		US,	UZ,	VN,	YU,	ZA,	zw										
	RW:	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AM,	ΑZ,	BY,	KG,
		KZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	CH,	CY,	DE,	DK,	ES,	FΙ,	FR,	GB,	GR,
		IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,
		GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG								
	AU 2001		A5	20020415 AU 2001-96657								20011005					
	US 2002		A1	:	2002:	L024	1	JS 2	001-		20011005						

=> d 4 so

L14 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2 SO Genes & Development (2002), 16(15), 1906-1918 CODEN: GEDEEP; ISSN: 0890-9369

=> d 4 ab

L14 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2 Recombination mapping defined a 6-kb region, 100 kb upstream of the transcription start site, that is required for B-I enhancer activity and paramutation-a stable, heritable change in transcription caused by allele interactions in maize (Zea mays). In this region, B-I and B' (the only b1 alleles that participate in paramutation) have seven tandem repeats of an 853-bp sequence otherwise unique in the genome; other alleles have one. Examination of recombinant alleles with different nos. of tandem repeats indicates that the repeats are required for both paramutation and enhancer function. The 6-kb region is identical in B-I and B', showing that epigenetic mechanisms mediate the stable silencing associated with paramutation. This is the first endogenous gene for which sequences required for paramutation have been defined and examined for methylation and chromatin structure. tandem repeat sequences are more methylated in B-I (high expressing) relative to B' (low expressing), opposite of the typical correlation. Furthermore, the change in repeat methylation follows establishment of the B' epigenetic state. B-I has a more open chromatin structure in the repeats relative to B'. The nuclease hypersensitivity differences developmentally precede transcription, suggesting that the repeat chromatin structure could be the heritable imprint distinguishing the two transcription states.

=> dup rem 116 PROCESSING COMPLETED FOR L16 3 DUP REM L16 (2 DUPLICATES REMOVED) L17

=> d 1-3 ti

- L17 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
- Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding
- L17 ANSWER 2 OF 3 CAPLUS 'COPYRIGHT 2004 ACS on STN DUPLICATE 1
- A mutation that prevents paramutation in maize also reverses Mutator transposon methylation and silencing
- ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2 L17
- Mutator transposons
- => s ((kubo, k?) or (kubo k?))/au4084 ((KUBO, K?) OR (KUBO K?))/AU
- => s l18 and paramut? L19 12 L18 AND PARAMUT?
- => dup rem 119 PROCESSING COMPLETED FOR L19 L20 8 DUP REM L19 (4 DUPLICATES REMOVED)
- => d 1-8 ti
- L20 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- Genes affecting transgene silencing in maize and the development of plant lines with low levels of transgene silencing for breeding
- L20 ANSWER 2 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 1
- mediator of paramutation1 Is required for establishment and TTmaintenance of paramutation at multiple maize loci.
- L20 ANSWER 3 OF 8 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. B And pl paramutation in maize: Heritable transcription states programmed during development.
- L20 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
- b and pl paramutation in maize: heritable transcription states T Tprogrammed during development
- L20 ANSWER 5 OF 8 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 2
- ΤI Sequences required for paramutation of the maize b gene map to a region containing the promoter and upstream sequences.
- L20 ANSWER 6 OF 8 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN Paramutation: An allelic interaction that causes heritable
- changes in transcription.
- L20 ANSWER 7 OF 8 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- Paramutation: An allelic interaction that causes heritable

changes in transcription.

L20 ANSWER 8 OF 8 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN TI Paramutation in maize: Allelic interactions associated with heritable changes in transcription.

=> s 122 and paramut? L23 8 L22 AND PARAMUT?

=> dup rem 123
PROCESSING COMPLETED FOR L23
L24 4 DUP REM L23 (4 DUPLICATES REMOVED)

=> d 1-4 tiu 'TIU' IS NOT A VALID FORMAT

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REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):ti

- L24 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN TI Three regulators of the maize anthocyanin pathway
- L24 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Genes affecting transgene silencing in maize and the development of plant
 lines with low levels of transgene silencing for breeding
- L24 ANSWER 3 OF 4 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 1
- TI A mutation that prevents **paramutation** in maize also reverses Mutator transposon methylation and silencing.
- L24 ANSWER 4 OF 4 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 2
- TI mediator of paramutation1 Is required for establishment and maintenance of paramutation at multiple maize loci.

=> d so

L24 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN SO (2002) 219 pp. Avail.: UMI, Order No. DA3061938 From: Diss. Abstr. Int., B 2003, 63(8), 3584

=> s paramut? and silenc? L25 70 PARAMUT? AND SILENC?

- => s 125 and transgenic L26 22 L25 AND TRANSGENIC
- => d 1-12 ti
- L27 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Genes affecting transgene **silencing** in maize and the development of plant lines with low levels of transgene **silencing** for breeding
- L27 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
 TI RNA-directed transcriptional gene **silencing** in plants can be inherited independently of the RNA trigger and requires Met1 for maintenance
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 (2004) on STN

 DUPLICATE 2
- TI Transgene-induced **silencing** identifies sequences involved in the establishment of **paramutation** of the maize pl gene.
- L27 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Homology-dependent gene silencing in transgenic
 plants: Links to cellular defense responses and genome evolution
- L27 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3 TI Internuclear gene **silencing** in Phytophthora infestans
- L27 ANSWER 6 OF 12 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 4
- TI Molecular and cytogenetic characterization of a transgene locus that induces **silencing** and methylation of homologous promoters in trans.
- L27 ANSWER 7 OF 12 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN

 DUPLICATE 5
- TI Homology-based control of gene expression patterns in **transgenic** petunia flowers.
- L27 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 6
 TI Epigenetic control of transcription. Epigenetic **silencing** of plant transgenes as a consequence of diverse cellular defense responses
- L27 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 7 TI Silencing of waxy genes in rice containing Wx transgenes
- L27 ANSWER 10 OF 12 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN
- TI **Paramutation** and transgene **silencing**: a common response to invasive DNA?
- L27 ANSWER 11 OF 12 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States

- of America. It contains copyrighted materials. All rights reserved. (2004) on STN
- TI Gene **silencing** in higher plants and related phenomena in other eukaryotes.
- L27 ANSWER 12 OF 12 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- TI Susceptibility of transgene loci to homology-dependent gene silencing.

=> d 2 ab

L27 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1 The association between DNA methylation and gene silencing has long AB been recognized; however, signals that initiate de novo methylation are largely unknown. In plants, recognition of RNAs that are inducers of posttranscriptional gene silencing (PTGS) can result in sequence-specific DNA methylation, and the aim of this work was to investigate whether heritable epigenetic changes can occur by this mechanism and if the Met1 methyltransferase is required. RNA-directed DNA methylation (RdDM) was initiated in 35S-GFP transgenic plants following infection with plant RNA viruses modified to carry portions of either the 35S promoter or the GFP coding region. Targeting of the promoter sequence resulted in both methylation and transcriptional gene silencing (TGS) that was inherited independently of the RNA trigger. Targeting the coding region also resulted in methylation; however, this was not inherited. Expression of Met1 was suppressed in order to investigate its role in initiation and maintenance of RdDM. Initiation of RdDM was found to be Met1-independent, whereas maintenance of methylation and TGS in the subsequent generations in the absence of the RNA trigger was Met1-dependent. Maintenance of methylation associated with systemic PTGS was also found to be Met1-independent. Thus, RNA-triggered events can lead to heritable changes in gene expression, and it is possible that initiation of other epigenetic phenomena such as transsilencing and paramutation may have an RNA component.

=> d 2 so

L27 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1 SO Current Biology (2001), 11(10), 747-757 CODEN: CUBLE2; ISSN: 0960-9822

=> d 2 so

L27 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1 SO Current Biology (2001), 11(10), 747-757 CODEN: CUBLE2; ISSN: 0960-9822

=> d 3 so

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 (2004) on STN DUPLICATE 2
- SO The Plant cell, Feb 2001. Vol. 13, No. 2. p. 319-335 Publisher: [Rockville, MD : American Society of Plant Physiologists, c1989-CODEN: PLCEEW; ISSN: 1040-4651

- L27 ANSWER 3 OF 12 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

 (2004) on STN DUPLICATE 2
- A transgene carrying a distal enhancer element of the maize P1-rr promoter AB caused silencing of an endogenous P1-rr allele in the progeny of transgenic maize plants. Expression of both the transgene and the endogenous P1-rr allele was reduced in the affected plants. The silenced phenotype was observed in the progeny of seven of eight crosses involving three independent transgenic events tested (average frequency of 19%). This phenotype was associated with an induced epigenetic state of the P1-rr allele, termed P1-rr', which is characterized by increased methylation of the P1-rr flanking regions and decreased levels of P1-rr transcript. The P1-rr' epiallele is highly heritable in the absence of the inducing P1.2b::GUS transgene, and it can impose an equivalent state on a naive P1-rr allele in subsequent crosses (paramutation). In contrast, parallel experiments with two other P::GUS transgenes that contained the same basal P1-rr promoter fragment but different upstream sequences revealed no detectable silencing effect. Thus, transgenes carrying a specific enhancer fragment of the P1-rr gene promoter can trigger a paramutant state (P1-rr') of the endogenous P1-rr gene that is maintained in the absence of the inducing transgene. We discuss the potential role of the P1-rr distal enhancer element in the establishment and propagation of a paramutation system in maize.

=> d 10 sb

'SB' IS NOT A VALID FORMAT

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=> d 10 so

- L27 ANSWER 10 OF 12 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN
- SO Trends in plant science, Nov 1996. Vol. 1, No. 11. p. 382-388 Publisher: Kidlington, Oxford: Elsevier Science, Ltd., c1996-ISSN: 1360-1385